WHAT IS CLAIMED IS:

1. A method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode, comprising the steps of:

providing a thin film-shaped porous electrode comprising an electrochemically active substance; and

reducing the pressure inside the porous electrode.

2. A method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode, comprising the steps of:

coating on an electrode surface of said thin film-shaped porous electrode a polymerizable compound which is converted to a solid polymer electrolyte or a pre-solid polymer electrolyte upon polymerization; and

reducing the pressure inside the porous electrode after superposing the electrode surface coated with the polymerizable compound onto said solid polymer electrolyte film.

3. The method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode as claimed in claim 1 or 2, wherein said solid polymer electrolyte film has an ion conductivity at room temperature of 10^{-5} S/cm

or more.

- 4. The method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode as claimed in any one of claims 1 to 3, wherein said solid polymer electrolyte film contains a cross-linking polymer having a urethane bond and an oxyalkylene group.
- 5. The method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode as claimed in claim 2, wherein said polymerizable compound coated on the electrode has a urethane bond and an oxyalkylene group.
- 6. The method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode as claimed in any one of claims 1 to 5, wherein said solid polymer electrolyte film is obtained by polymerizing a composition comprising a solvent having dissolved therein a polymerizable compound.
- 7. The method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode as claimed in any one of claims 1 to 5, wherein said solid polymer electrolyte film is obtained by polymerizing a composition comprising a solvent containing an electrolyte salt having

dissolved therein a polymerizable compound.

8. A method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode, comprising the steps of:

coating a polymerizable compound which converts to a solid polymer electrolyte or a pre-solid polymer electrolyte upon polymerization on an electrode surface of a laminate film comprising a film base material and a film-shaped porous electrode on the film base material;

reducing the pressure inside the electrode after superposing the surface coated with the polymerizable compound onto said solid polymer electrolyte film; and

peeling off said film base material.

- 9. The method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode, as claimed in claim 8, further comprising the step of polymerizing the polymerizable compound after the step of reducing the pressure inside the electrode.
- 10. The method for manufacturing a composite of a solid polymer electrolyte film and a thin film-shaped electrode, as claimed in claim 8 or 9, wherein the film base material has a metal or metal oxide coating, on which said film-shaped porous

electrode is provided to form a laminate film.

11. A method for producing a battery, comprising the step of:

providing a composite of a solid polymer electrolyte film

and an electrode obtained by the method as claimed in any one

of claims 1 to 10; and

impregnating under reduced pressure the electrode in said composite with an electrolytic solution.

- 12. The method for producing a battery as claimed in claim 11, wherein the electrolytic solution comprises a polymerizable compound and an electrolyte salt and the polymerizable compound is polymerized to cure after the impregnation under reduced pressure.
- 13. A method for producing a battery, comprising the step of: providing a composite of a solid polymer electrolyte film containing no electrolyte salt and an electrode as claimed in claim 6; and

impregnating the electrode of said composite with an electrolytic solution under reduced pressure.

14. The method for producing a battery as claimed in claim 13, wherein the electrolytic solution comprises a polymerizable compound and an electrolyte salt and the polymerizable compound

is polymerized to cure after the impregnation under reduced pressure.

15. A method for producing a battery, comprising the step of: providing a composite of a solid polymer electrolyte film containing an electrolyte salt and an electrode as claimed in claim 7; and

impregnating the electrode of said composite with an electrolytic solution which has a concentration of an electrolyte salt greater than a concentration at which the electrolytic solution has a maximum ion conductivity.

- 16. The method for producing a battery as claimed in claim 15, wherein the electrolytic solution comprises a polymerizable compound and an electrolyte salt and the polymerizable compound is polymerized to cure after the impregnation under reduced pressure.
- 17. A battery obtained by the method as claimed in any one of claims 11 to 16.